

FLAME-RETARDANT MIXTURE FOR LIGNOCELLULOSE COMPOSITES

ABSTRACT OF THE DISCLOSURE

The invention relates to a flame-retardant mixture for lignocellulose composites having from 60 to 90% by mass of particulate or fibrous lignocellulose materials and from 40 to 10% by mass of a flame retardant concentrate immobilized on or in the particulate or fibrous lignocellulose materials as carriers. The flame retardants are boric acids or the salts thereof. Also, melamine resins and optionally synergistic agents and further additives may be present. The preparation of the flame-retardant mixture can be effected by a liquid impregnation process, a melt impregnation process and a liquid impregnation/solids mixing process. In the form of flame-retardant semifinished products and molding materials, the lignocellulose composites have high resistance to insect infestation, fungal infestation and mold infestation and high resistance to washing out of the flame-retardant mixture and are preferably suitable for applications in outdoor use in the building and leisure sector.